

BENCHMARK #1  
 CROSS CUT SET IN FIRE HYDRANT  
 BONNET BOLT  
 ELEV = 6.04 (NAVD 88)

Rev.	Date	Description	By

Project Location  
**#137 & #143  
 Popes Island  
 New Bedford, MA  
 (Bristol County)**

Prepared For  
**Shoreline Resources, LLC**

Drawing Title

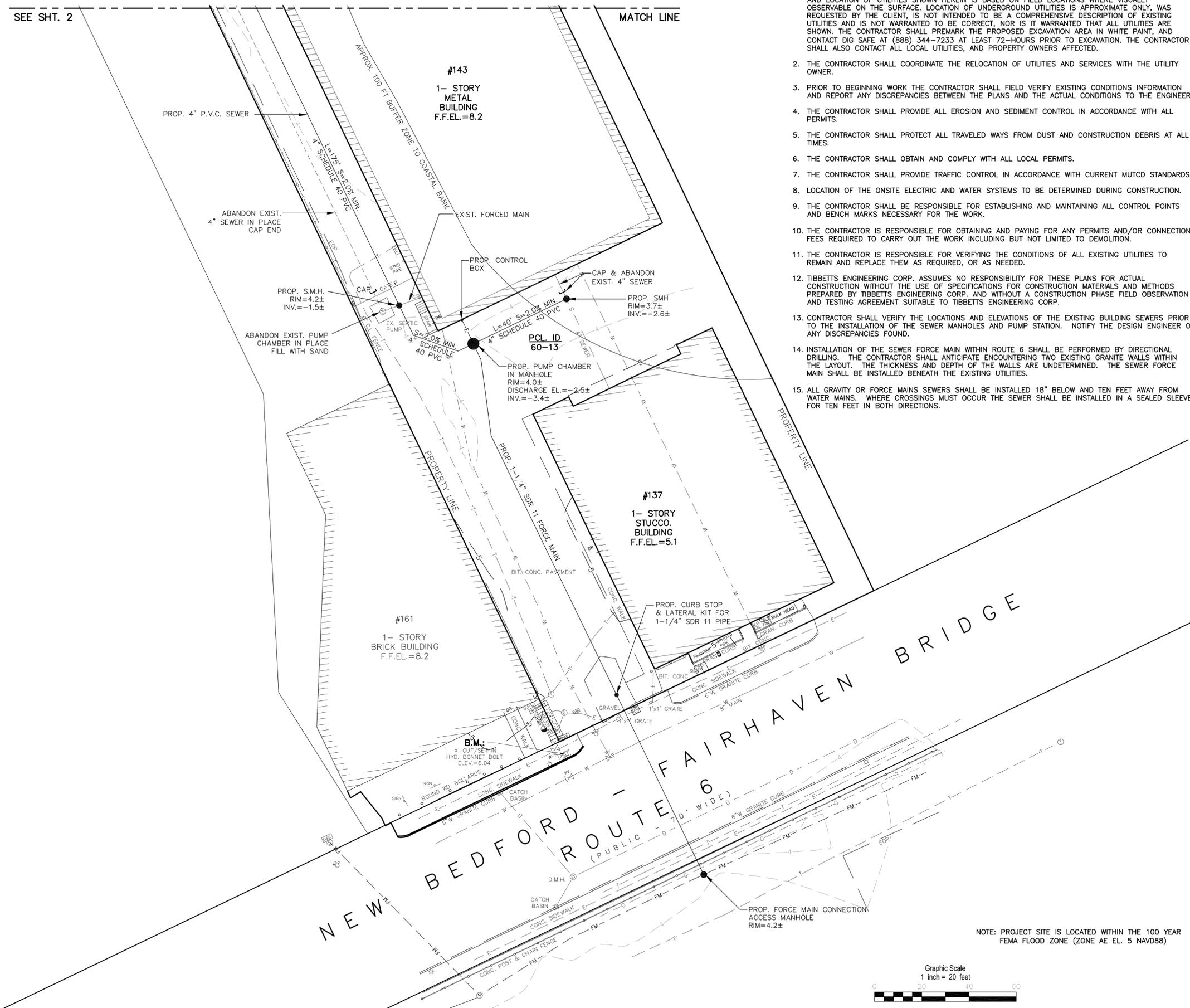
**Request for  
 Determination of  
 Applicability (RDA)**

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Drawn by: RAL	Drawing Number <b>1 of 3</b>
Design by: RJR	
Reviewed by: RJR	
Approved by: GEB	
Project No: 12221.020	
Date: 06-02-14	

**GENERAL NOTES:**

1. THE ACCURACY AND COMPLETENESS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. INFORMATION ON AND LOCATION OF UTILITIES SHOWN HEREIN IS BASED ON FIELD LOCATIONS WHERE VISUALLY OBSERVABLE ON THE SURFACE. LOCATION OF UNDERGROUND UTILITIES IS APPROXIMATE ONLY. WAS REQUESTED BY THE CLIENT, IS NOT INTENDED TO BE A COMPREHENSIVE DESCRIPTION OF EXISTING UTILITIES AND IS NOT WARRANTED TO BE CORRECT, NOR IS IT WARRANTED THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL PREMARK THE PROPOSED EXCAVATION AREA IN WHITE PAINT, AND CONTACT DIG SAFE AT (888) 344-7233 AT LEAST 72-HOURS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL ALSO CONTACT ALL LOCAL UTILITIES, AND PROPERTY OWNERS AFFECTED.
2. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF UTILITIES AND SERVICES WITH THE UTILITY OWNER.
3. PRIOR TO BEGINNING WORK THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS INFORMATION AND REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND THE ACTUAL CONDITIONS TO THE ENGINEER.
4. THE CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH ALL PERMITS.
5. THE CONTRACTOR SHALL PROTECT ALL TRAVELED WAYS FROM DUST AND CONSTRUCTION DEBRIS AT ALL TIMES.
6. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH ALL LOCAL PERMITS.
7. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH CURRENT MUTCD STANDARDS.
8. LOCATION OF THE ONSITE ELECTRIC AND WATER SYSTEMS TO BE DETERMINED DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE WORK.
10. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO CARRY OUT THE WORK INCLUDING BUT NOT LIMITED TO DEMOLITION.
11. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE CONDITIONS OF ALL EXISTING UTILITIES TO REMAIN AND REPLACE THEM AS REQUIRED, OR AS NEEDED.
12. TIBBETTS ENGINEERING CORP. ASSUMES NO RESPONSIBILITY FOR THESE PLANS FOR ACTUAL CONSTRUCTION WITHOUT THE USE OF SPECIFICATIONS FOR CONSTRUCTION MATERIALS AND METHODS PREPARED BY TIBBETTS ENGINEERING CORP. AND WITHOUT A CONSTRUCTION PHASE FIELD OBSERVATION AND TESTING AGREEMENT SUITABLE TO TIBBETTS ENGINEERING CORP.
13. CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF THE EXISTING BUILDING SEWERS PRIOR TO THE INSTALLATION OF THE SEWER MANHOLES AND PUMP STATION. NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES FOUND.
14. INSTALLATION OF THE SEWER FORCE MAIN WITHIN ROUTE 6 SHALL BE PERFORMED BY DIRECTIONAL DRILLING. THE CONTRACTOR SHALL ANTICIPATE ENCOUNTERING TWO EXISTING GRANITE WALLS WITHIN THE LAYOUT. THE THICKNESS AND DEPTH OF THE WALLS ARE UNDETERMINED. THE SEWER FORCE MAIN SHALL BE INSTALLED BENEATH THE EXISTING UTILITIES.
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**LEGEND**

⊙	SEWER MANHOLE
⊙	DRAIN MANHOLE
⊙	CATCH BASIN
⊙	EXISTING GAS MAIN
OHW	EXISTING OVERHEAD WIRES
S	EXISTING SEWER MAIN
D	EXISTING DRAIN LINE
W	EXISTING WATER MAIN
▨	DUMPSTER
RCP	REINFORCED CONCRETE PIPE
CPD	CONCRETE PAD
WDF	WOOD FENCE
SB	SPEED BUMP
FTG	FOOTING
EOP	EDGE OF PAVEMENT
CRS	CRUSHED STONE
OHD	OVER HEAD DOOR
BC	BITUMINOUS CURB
GC	GRANITE CURB
GM	GAS METER
EM	ELECTRIC METER
WS	WATER SPRINKLER
FB	FIRE BOX
A	ALARM
FA	FIRE ALARM
HYD	HYDRANT
L	LIGHT
RD	ROOF DRAIN
SBX	SERVICE BOX
HH	HAND HOLE
V	VALVE
VP	VENT PIPE
WG	WATER GATE
SP	SPRINKLER
FA	FIRE ALARM
SC	SPRINKLER CONNECT
GC	GAS GATE
P	POST
S	SIGN
TR	TRANSFORMER
UP	UTILITY POLE
GW	GUY WIRE
ER	ELECTRIC RISER
GR	GAS RISER
MW	MONITOR WELL
SHR	SHRUBS
DT	DECIDUOUS TREE
TL	TREE LINE
SL	SHRUB LINE
CH	CHAIN
OW	OVER HEAD WIRE
GR	GUARD RAIL
CLF	CHAIN LINK FENCE (CLF)
W	EXISTING WATER LINE
E	EXISTING ELECTRIC LINE
S	EXISTING SEWER LINE
G	EXISTING GAS LINE
T	EXISTING TELEPHONE LINE

**BEARING SYSTEM BASED UPON**  
 PLAN BOOK 1096 AND PAGE 129

**PLAN REFERENCES**  
 PLAN BK. 109 PAGE 129

**TITLE REFERENCES**  
 DEED BK. 9185, PAGE 250

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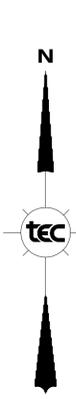
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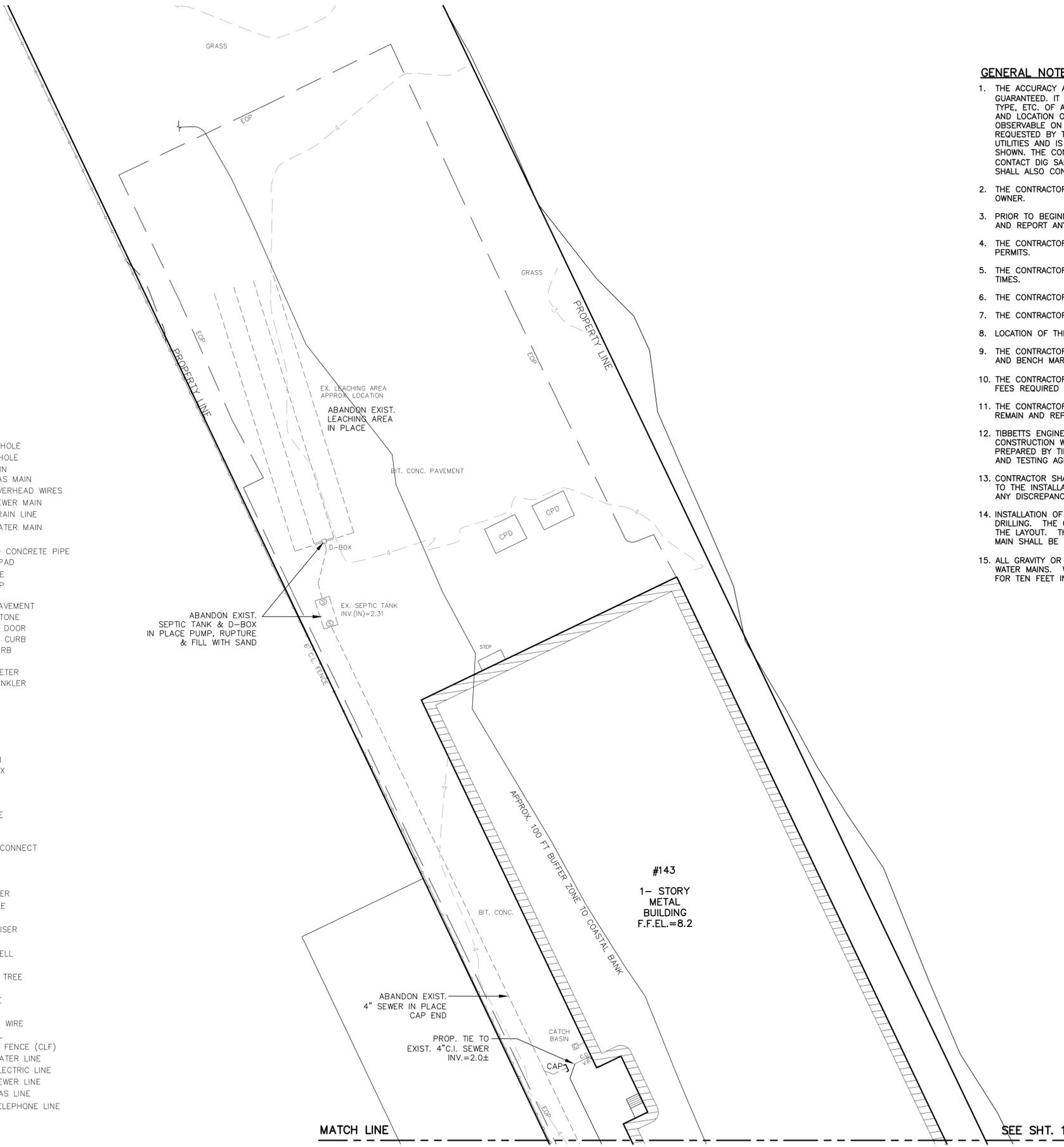
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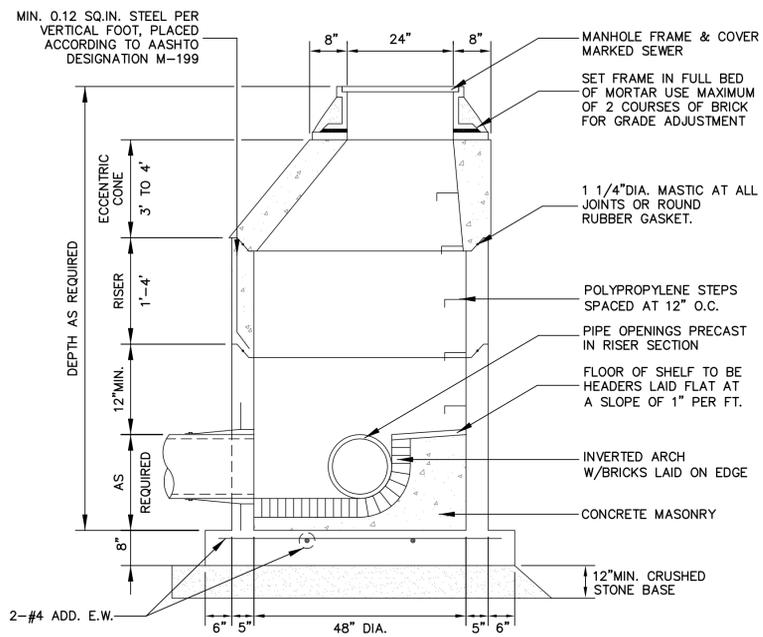
**LEGEND**

- ⊙ SEWER MANHOLE
- ⊙ DRAIN MANHOLE
- ⊙ CATCH BASIN
- G EXISTING GAS MAIN
- OHW EXISTING OVERHEAD WIRES
- S EXISTING SEWER MAIN
- D EXISTING DRAIN LINE
- W EXISTING WATER MAIN
- ▨ DUMPSTER
- RCP REINFORCED CONCRETE PIPE
- CPD CONCRETE PAD
- WDF WOOD FENCE
- SB SPEED BUMP
- FTG FOOTING
- EOP EDGE OF PAVEMENT
- CRS CRUSHED STONE
- OHD OVER HEAD DOOR
- BC BITUMINOUS CURB
- GC GRANITE CURB
- GM GAS METER
- EM ELECTRIC METER
- WS WATER SPRINKLER
- FB FIRE BOX
- A ALARM
- FA FIRE ALARM
- HYDRANT
- LIGHT
- LIGHT
- RD ROOF DRAIN
- SBX SERVICE BOX
- HH HAND HOLE
- V VALVE
- VP VENT PIPE
- WG WATER GATE
- SP SPRINKLER
- FA FIRE ALARM
- SC SPRINKLER CONNECT
- GC GAS GATE
- P POST
- S SIGN
- T TRANSFORMER
- UP UTILITY POLE
- GUY WIRE
- ER ELECTRIC RISER
- GR GAS RISER
- MW MONITOR WELL
- SHRUBS
- DECIDUOUS TREE
- TREE LINE
- SHRUB LINE
- CHAIN
- OVER HEAD WIRE
- GUARD RAIL
- CHAIN LINK FENCE (CLF)
- W EXISTING WATER LINE
- E EXISTING ELECTRIC LINE
- S EXISTING SEWER LINE
- G EXISTING GAS LINE
- T EXISTING TELEPHONE LINE



NOTE: PROJECT SITE IS LOCATED WITHIN THE 100 YEAR FEMA FLOOD ZONE (ZONE AE EL. 5 NAVD88)



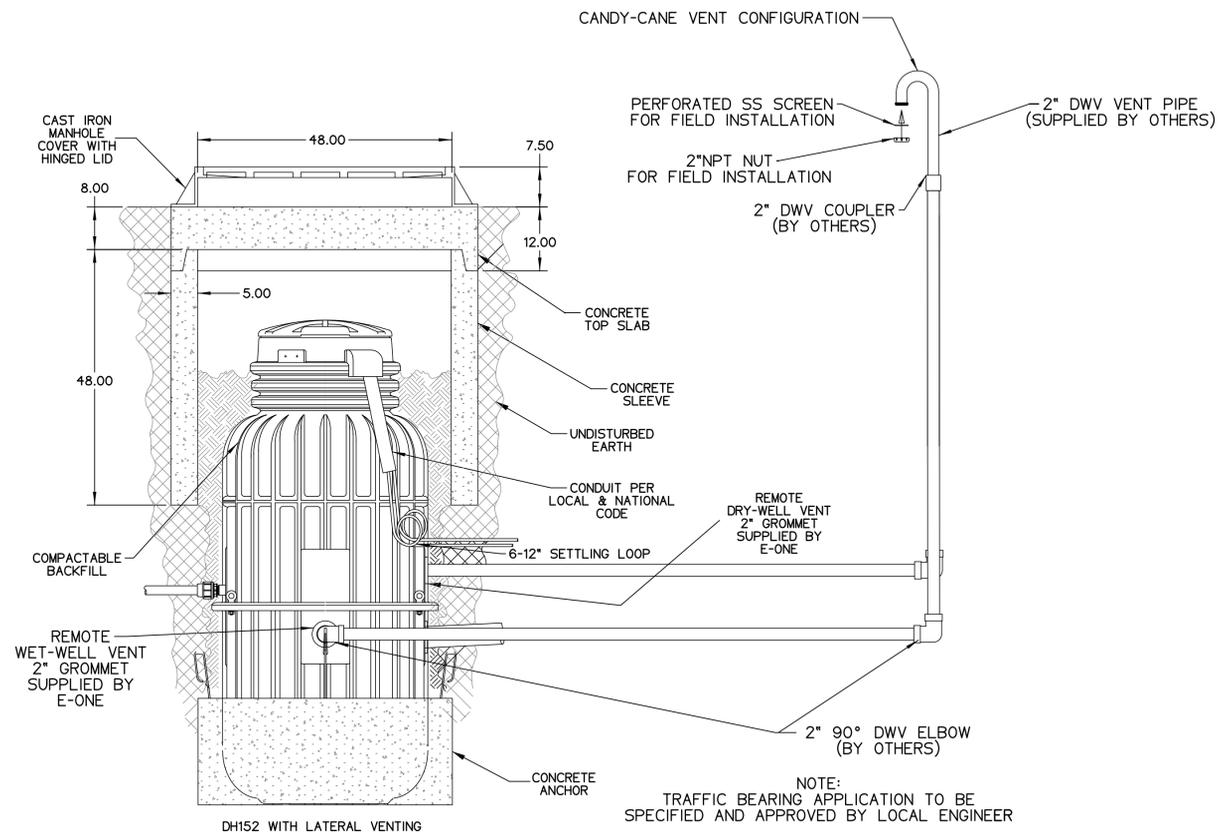


**NOTES:**

1. MANHOLE DESIGN TO CONFORM TO PRECAST CONCRETE MANHOLE SECTIONS - ASTM C478 LATEST REVISION.
2. FILL OUTSIDE FACE OF ALL MANHOLE JOINTS W/NON SHRINK MORTAR.
3. USE FLAT TOP SLAB WHEN HEIGHT OF CONE SECTION IS LESS THAN 3'-0\".
4. PROVIDE PIPE JOINTS NO MORE THAN 3'-0\" FROM OUTSIDE FACE OF MANHOLE.
5. PLUG LIFT HOLES SOLID W/MASTIC.
6. PROVIDE FLEXIBLE SLEEVE AND STAINLESS STEEL STRAP AT ALL PIPE TO MANHOLE JOINTS.

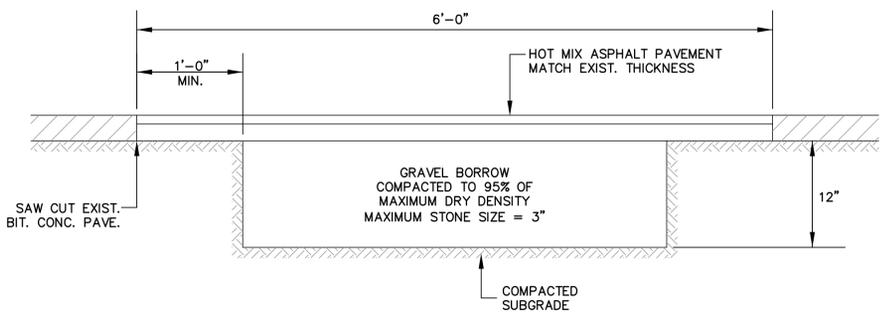
**PRECAST CONCRETE SEWER MANHOLE**

NOT TO SCALE



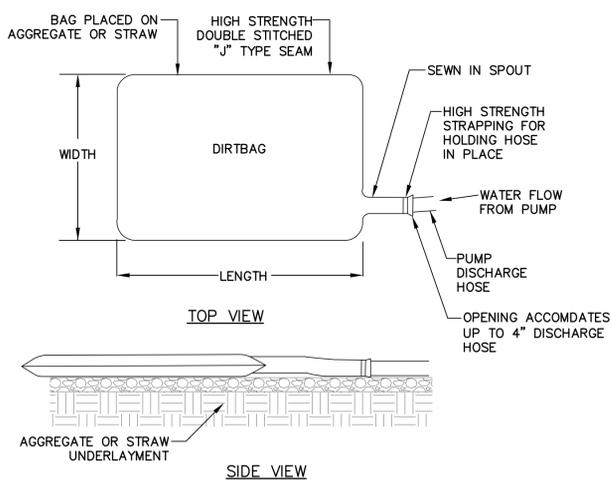
**E ONE PUMP CHAMBER  
DH152 IN A MANHOLE**

NOT TO SCALE



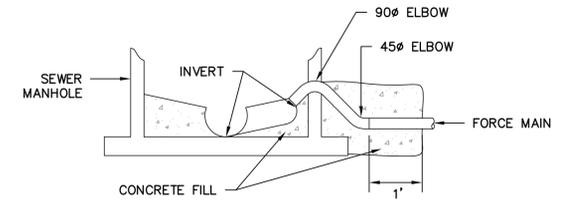
**HOT MIX ASPHALT  
PAVEMENT RESTORATION DETAIL**

NOT TO SCALE



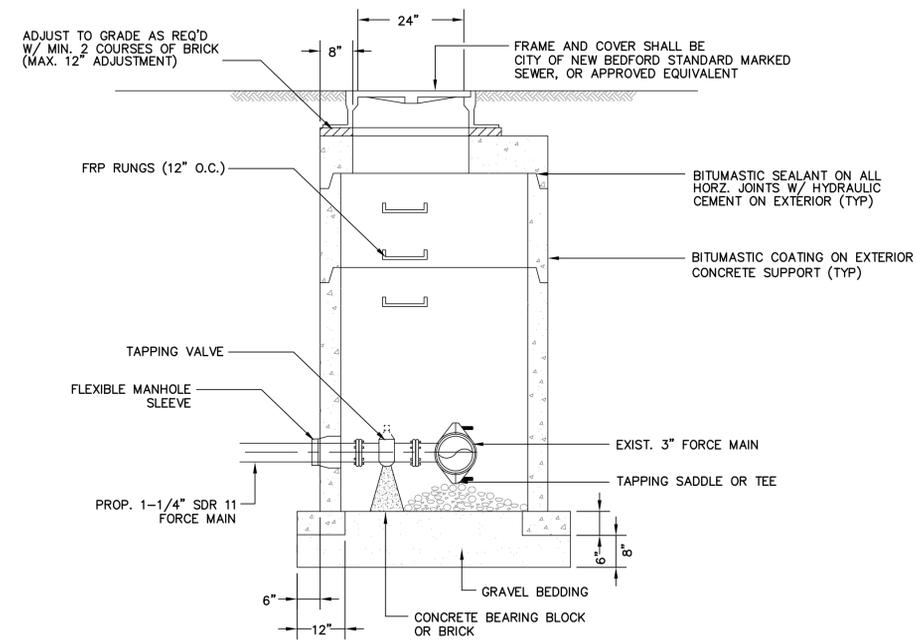
**DIRTBAG DETAIL**

NOT TO SCALE



**FORCE MAIN OUTLET DETAIL**

NOT TO SCALE



**FORCE MAIN CONNECTION  
ACCESS MANHOLE**

NOT TO SCALE

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